

In an efficient database management method, a program beforehand defined and registered to a database is invoked by a request to execute database processing. An inputted query request is analyzed to generate an execution module for executing it. When a program not contained in the module is invoked at execution of the module, resources predetermined for use by programs are classified into resources to be set as unavailable resources until a transaction is completed in another program and resources to be set as resources unavailable to other programs until the programs are terminated. When a transaction completion request is received from a program, any resource set as an unavailable resource until the transaction is completed in the program is set as an available resource. Any resource set as unavailable resource until a program associated therewith is terminated is set as an available resource when the program is terminated.